Here's What's New...

New Product Releases & Product Updates

October 3, 2016

*** NEW RELEASES ***
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1.0 PMI Model: P2T-1G1R1G-25-R-SFF-100W

PMI Model No. P2T-1G1R1G-25-R-SFF-100W is a single pole, two throw, hermetically sealed reflective switch designed to operate over the 1.0 to 1.1 GHz frequency range. This model is designed to handle 100 Watts average input power and 5 kW peak having a 17 µs pulse width and 2% duty cycle. Features include TNC Female (J1, J2, J3), 9-Pin Micro D (DC/Control) and TTL Compatible. Unit size is 2.00” x 1.80” x 0.50”.

- Frequency Range: 1.0 to 1.1 GHz
- Isolation: 25 dB Min. - Measured 40.09 dB
- VSWR: 1.5:1 Typ
- Insertion Loss: 0.8 dB Max - Measured 0.49 dB
- RF Input Power: 100 Watts CW Max / 5 kW peak - Tested to 100 W CW
- Switching Speed: 100 ns Max - Measured 61.6 ns
- Temperature: -45 ºC to +85 ºC Operating
- Power Supply: +50 V @ 50 mA - Measured 17 mA
  +5 V @ 200 mA - Measured 135 mA

PMI Website Link,
http://www.pmi-rf.com/products/switches/P2T-1G1R1G-25-R-SFF-100W.htm
2.0 PMI Model No.: PSM-1G1R1G-TRSW-2500W

PMI Model No. PSM-1G1R1G-TRSW-2500W is an integrated Transmit / Receive (T/R) Module that is designed for use in an IFF application. This T/R Module operates from 1.0 GHz to 1.1 GHz and handles peak input power levels up to 2.5 kW having a maximum pulse width of 17 µs and a duty cycle of 2%. Features include SMA female connectors. Unit size is 7.750" x 3.000" x 0.575" with painted blue finish.

- Frequency: 1.0 to 1.1 GHz
- Isolation: 25 dB Min. (J2-J3) - Measured 38 dB
  60 dB Min. (J2-J4) - Measured 65 dB
- VSWR: 1.4:1 Typ
- Insertion Loss: 1.0 dB Max - Measured 0.67 dB
  0.8 dB Max - Measured 0.49 dB
- RF Input Power: 2.5 kW CW Max (J1 Only)
- Switching Speed: 2 kHz Max
- Temperature: -45 ºC to +85 ºC Operating
- Power Supply:
  +50 V @ 60 mA - Measured 30 mA
  +5 V @ 400 mA - Measured 360 mA

PMI Website Link,

3.0 PMI Model No.: P2T-1G18G-10-R-528-SFF-HIP10W

PMI Model No. P2T-1G18G-10-R-528-SFF-HIP10W is a single pole, two throw, reflective switch capable of operating with an input power of 10 W CW over the 1.0 to 18.0 GHz frequency range. This model features high input power handling capability while offering very fast switching speeds of 40 ns. This switch is compact in size and weight and only consumes 2.5 mA of positive and 2.5 mA of negative DC current making it suitable for a wide range of applications.

- Frequency: 0.1 to 18.0 GHz
- Isolation: 25 dB Min. - Measured 25.73 dB
- VSWR: 2.0:1 Typ - Measured 1.76:1
- Insertion Loss: 3.5 dB Max - Measured 2.66 dB
- RF Input Power: 5 Watts CW Max - Tested at 5 W CW
- Switching Speed: 200 ns Max - Measured 60 ns
- Temperature: -54 ºC to +100 ºC Operating
- Power Supply:
  +5 VDC @ 160 mA - Measured 135 mA
  -28 VDC @ 15 mA - Measured 5 mA
4.0 PMI Model No.: P2T-1G18G-10-R-5V-SFF-HIP10W-HERM

PMI Model No. P2T-1G18G-10-R-5V-SFF-HIP10W-HERM is a hermetically sealed, reflective, single pole, two throw pin diode switch that operates over the 1.0 to 18.0GHz frequency range. This model is capable of handling an input power level of 5 W CW while providing switching speeds of less than 40 ns typically. Port to Port isolation is 25 dB typically while providing low insertion loss of 2.5 dB typical. The DC power required is a single +5 VDC voltage with low current consumption of 35 mA. This model incorporates a TTL compatible driver for easy system integration.

- Frequency: 0.1 to 18.0 GHz
- Isolation: 10 dB Min. - Measured 25.1 dB
- VSWR: 2.0:1 Typ - Measured 1.64:1
- Insertion Loss: 4.0 dB Max - Measured 2.53 dB
- RF Input Power: 5 Watts CW Max - Tested at 5 W CW
- Switching Speed: 100 ns Max - Measured <40 ns
- Temperature: -54 °C to +100 °C Operating
- RF Input Power: +5 to +12 VDC @ 50 mA Max. - Measured 35 mA

5.0 PMI Model No.: PMC-3G3D5G-6D8-SFF

PMI Model: PMC-3G3D5G-6D8-SFF is a Monopulse Comparator operating over the 3.0 to 3.5 GHz frequency range. This model offers a maximum insertion loss of 0.8 dB maximum IF input signals at Ports A, B, C and D are equal in amplitude or power & in-phase with an output at Port AZΣ. Insertion loss of 6.8 dB maximum IF input signal at Port A, B, C or D and all other ports are terminated to 50 ohms with an output at Ports ELΔ, AZΣ, AQ or AZΔ, while maintaining a maximum amplitude balance of ±0.4 dB and a maximum phase balance of ±5°.

- Frequency Range: 3.0 to 3.5 GHz
- Insertion Loss: 0.8 dB Max. - Measured 0.4 dB
- VSWR: 1.25:1 Typ - Measured 1.25:1
- Isolation: 23 dB Min. - Measured 25.052 db
- Amplitude Balance: ±0.4 dB typical - Measured ±0.2681 dB
- Phase Balance: ±5° typical - Measured +3.2°
- RF Input Power Average: 11 Watts Max., Peak: 0.1 kW Max.
- Temperature: -32 °C to +77 °C Operating

6.0 PMI Model No.: PD-CD-001-1
PMI Model No. PD-CD-001-1 is a 4-Way Phase Divider with 0°, 90°, 180°, and 270° outputs. This divider operates over the frequency range of 9.3 to 9.3 GHz.

- Frequency Range: 9.3 to 9.9 GHz
- Insertion Loss: 8.0 dB Max. - Measured 6.97 dB
- VSWR (In/Out): 2.0:1 Max - Measured 1.6:1
- Impedance: 50 Ohms
- Amplitude Balance: ±0.5 dB Max. - Measured ±0.2 dB Max.
- Phase Balance: ±7.0° Max. - Measured 4° Max.
- Functionality:
  
  J1 to J2: 0° Phase Shift
  J1 to J3: 90° Phase Shift
  J1 to J4: 180° Phase Shift
  J1 to J5: 270° Phase Shift
- Input Power: 28 W CW, 750 W Peak

PMI Website Link,  
http://www.pmi-rf.com/Products/power_divider/PD-CD-001-1.htm

7.0 PMI Model No.: LP2400-3G-MAH-SFF

PMI Model No. LP2400-3G-MAH-SFF is a Lowpass Filter. This filter offers very high Q with broadband performance and very low loss. It is ideal for eliminating broadband harmonics and spurs. Features SMA female connector with blue painted finished. Unit size is 1.25” x 0.31” x 0.31”.

- Cutoff Frequency: 2.4 GHz
- Return Loss in the Passband: 10 dB Typ
- Insertion Loss (Passband): 3.5 dB Typ - Measured 2.1 dB
- Rejection:
  13 dB Typ @ 3000 MHz - Measured 73.3 dB
  51 dB Typ @ 3500 MHz - Measured 54.9 dB
  60 dB Typ @ 3800 MHz - Measured 17.7 dB
  40 dB Typ up to 18.0 GHz - Measured 49.6 dB

PMI Website Link,  
http://pmi-rf.com/Products/filters/LP2400-3G-MAH-SFF.htm

8.0 PMI Model No.: LM-26G40G-14-20W-292FM

PMI Model No. LM-26G40G-14-20W-292FM is a high power limiter that operates from 26.5 to 40.0GHz and handles 20 watts peak power. The leakage power is +14dBm typical. The unit is supplied with removable 2.92nn female connectors in a 0.50" x 0.50" x .22" size package.

- Frequency Range: 26.5 to 40 GHz
- Insertion Loss: 4.0 dB Max. - Measured 2.96 dB
- Peak Power: +33 dBm CW
- Pulse Width: 440 to 670 ns
- PRF: 600 to 900 KHz
- Duty Cycle: 40%
- Leakage Power: +14 dBm Max
- 1dB Recovery Time: 250 ns Max - Measured <100 ns
9.0 PMI Model No.: GMPA-8217-7

PMI Model No. GMPA-8217-7 is a 8.5 to 17.5 GHz Amplifier with small signal gain from 5.0 to 9.0 GHz and a P-1dB output power of +22 dBm. This unit is supplied with SMA female connectors in a housing measuring 1.56" x 1.00" x 0.60".

- Frequency Range: 8.5 to 17.5 GHz
- Small Signal Gain:
  - 5.0 dB Min - Measured 5.63 dB
  - 9.0 dB Max - Measured 8.37 dB
- Power Output: +22 dBm P-1dB Min
- VSWR (In/Out): 2.0:1 Max - Measured 1.82:1
- Gain VS Frequency: ±1 dB Max
- Impedance: 50 Ω
- Noise Output: -85 dBm/MHz Max
- Harmonics: -10 dBc @ +19 dBm Input - Measured -29.85 dBc
- Saturated Power: +28 dBm Max
- DC Supply: +15 VDC @ 700 mA - Measured 432 mA


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*** PRODUCT UPDATES ***

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10.0 PMI Model No.: PEC-9R510R7-100W-SFF-SPDT

PMI Model No. PEC-9R510R7-100W-SFF-SPDT is a high power, single pole, double throw switch capable of handling 120 watts CW. This solid-state switch operates in the frequency range of 9.5 to 10.7 GHz and has a typical insertion loss of 1.5 dB and port to port isolation of over 40 dB. The switch is TTL controlled and offers switching speeds under 400 nsec. This model only consumes 160 mA at +5 VDC and 15mA at -28 VDC. The switch measures 2.12" x 1.18" x 0.51".

- Frequency: 9.5 to 10.7 GHz
- Isolation: 40 dB Min - Measured 44.49 dB
- VSWR: 2.0:1 Typ - Measured 1.42:1
- Insertion Loss: 1.5 dB Max - Measured 1.34 dB
- RF Input Power: 120 W CW
- Switching Speed: 400 ns Max - Measured <300 ns
- Temperature: -55 ºC to +100 ºC Operating
- RF Input Power: +5 to +12 VDC @ 50 mA Max - Measured 35 mA

11.0 PMI Model No.: MPC-20R2G21R2G-CD-LNF

PMI Model No. MPC-20R2G21R2G-CD-LNF is a Monopulse Circuit designed for beamforming applications. This unit works over the 20.2 to 21.2GHz frequency range. Low noise amplifiers are integrated directly onto all eight inputs and an output switch allows the selection of a 0 or 90 degree output. Features SMA female connectors and painted gray. Unit size: 6.25" x Ø4.80" x 2.00".

Features:

- Section 1:
  - 8 Antenna Inputs
  - Phase Matched LNAs
  - Hybrid Tee
  - Ringline Couplers
  - Phase Matched Outputs
- Section 2:
  - Hybrid 90 degree Power Divider
  - Branchline Coupler
  - SPDT Absorptive Solid State Switch

Specifications:

- Frequency Range: 20.2 to 21.1 GHz
- Gain: 0 to +10 dB
- Noise Temperature: 100 K
- Phase Balance: ±3.0° Max.
- DC Supply: +12 to +15 VDC Typ.
- Control Signal: TTL Logic

*** For more information on PMI's complete line of products, please visit ***

http://www.pmi-rf.com/Products/multifunctionmodules/MPC-20R2G21R2G-CD-LNF.htm

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DC to 50 GHz Components, Modules, and Sub-Systems

PMI offers just about any RF/Microwave component, module, or sub-system for both industrial and military based requirements. Please click on the product types below to be directed to our web site catalog. Components and modules can be modified to meet your exact requirement.

(Click on links below to be directed to the web listings)
Low Noise Amplifiers
Threshold Detectors
Filters and Switch Filter Banks
Dielectric Resonator Oscillators
I/Q Vector Modulators
Frequency Synthesizers
Diode Detectors
Digital Attenuators
Digitally Tuned Oscillator
Frequency Discriminators
I/Q Vector Modulators
Limiters
Multifunction Integrated Assemblies
Phase Shifters
Power Dividers/Combiners
We truly value your interest in our company and our products. We appreciate your feedback. Please feel free to contact us with any requirements or questions that you may have.

Sincerely,

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